

SAPC 12114
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8 January 1957

MEMORANDUM FOR: Contracting Officer

SUBJECT : System One Read-Out Equipments

A. Summary of Technical Problems with System 1 Read-Out Equipment

1. F Rack

a. This rack has approximately 10 db. of threshold when used with System 1 tapes resulting in an unsatisfactory result. Work to correct this problem has been started by the contractor. Two Brush pens giving lateral deflections will replace four of the go-no-go pens. It will be possible to replace the Brush pens with the original go-no-go pens as a maintenance man change so that the F rack will still be usable in System 4 read-out. The installation of the Brush pens holders is a factory job.

b. The pens of the F rack burn large spots on the paper if the drive motor stops. The contractor is requested to provide a kit to remove the current from the pens when the motor stops.

2. A and C Racks

a. The mixers in these racks continued to mix when set for zero mixing. As recommended by the contractor, this has been solved by the replacing of a blocking condenser. It is expected that the contractor will make this correction on future production units.

b. The hum level of these playback units is too high. It has been necessary to revert back to Ampex equipment for all duping and playback since this hum was destroying some of the results. It is requested that the contractor develop a solution to this problem as soon as possible.

c. Microphonics from the first two amplifiers stages and man-made noises from other equipment in the analysis booth are destroying results. It will be necessary to correct both of these faults before the units can be used. Since the only interim analysis equipment is the few Ampex units on hand (the Ampex equipment does not have any of the above faults), it is requested that the contractor correct these two matters concurrent with the problem in b. above.

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SUBJECT: System One Read-Out Equipment

B. It is requested that you ask the contractor to correct Items 2.b., 2.c. and 1.b. above in existing units and correct 2.a., b., c. and 1.b. in future production units. It is believed that the contractor has been asked to correct item 1.a.

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